

Python: module cdms.cudsinterface

cdms.cudsinterface

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Emulation of old cu package

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Classes

cuDataset

class *cuDataset*

A mixin class to support the old cu interface

Methods defined here:

*__call__(self, id, *args, **kwargs)*

Call a variable object with the given id. Exception if not found.
Call the variable with the other arguments.

__getitem__(self, key)

Implement f['varname'] for file/dataset f.

__init__(self)

cleardefault(self)

Clear the default variable name.

default_variable(self, vname)

Set the default variable name.

dimensionarray(self, dname, vname=None)

Values of the dimension named dname.

dimensionobject(self, dname, vname=None)

CDMS axis object for the dimension named dname.

getattribute(self, vname, attribute)

Get the value of attribute for variable vname

***getdimensionunits*(self, dname, vname=None)**
Get the units for the given dimension.

***getglobal*(self, attribute)**
Get the value of the global attribute.

***getslab*(self, vname, *args, **keys)**
getslab('name', arg1, arg2,) returns a cdms variable containing the data.

Arguments for each dimension can be:

- (1) : or None -- selected entire dimension
- (2) Ellipsis -- select entire dimensions between the ones
- (3) a pair of successive arguments giving an interval in world coordinates.
- (4) a cdms-style tuple of world coordinates e.g. (start, s

***listall*(self, vname=None, all=None)**
Get info about data from the file.

***listattribute*(self, vname=None)**
Get attributes of data from the file.

***listdimension*(self, vname=None)**
Return a list of the dimension names associated with a variable. If no argument, return the file.axes.keys()

***listglobal*(self)**
Returns a list of the global attributes in the file.

***listvariable*(self)**
Return a list of the variables in the file.

***listvariables = listvariable*(self)**

***readScripGrid*(self, whichGrid='destination', checkGrid=1)**
Read a SCRIP curvilinear or generic grid from the dataset. The dataset can be a SCRIP grid file or mapping file. If a mapping file is used, 'whichGrid' chooses the grid to read, either "source" or "destination". If 'checkGrid' is 1 (default), the grid cells are checked for consistency and 'repaired' if necessary.
Returns the grid object.

***showall*(self, vname=None, all=None, device=None)**
Show a full description of the variable.

***showattribute*(self, vname=None, device=None)**
Show the attributes of vname.

***showdimension*(self, vname=None, device=None)**
Show the dimension names associated with a variable.

showglobal(self, device=None)
Show the global attributes in the file.

showvariable(self, device=None)
Show the variables in the file.